ECS Configuration Change Request

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Rm #:	7. Dept.
Henry Baez	**05/29/03**	**03-0388**	—	301-925-1025	2101D	Sys Eng

8. CCR Title: Release latest IBM OS 10/100Mbit PCI drivers for PVC, SMC, and DAACs firewalls.

9. Originator Signature/Date	10. Class	11. Type:	12. Need Date: 06-3-2003
Henry Baez /s/ 05/29/03	II	CCR	

13. Office Manager Signature/Date	14. Category of Change:	15. Priority: (If "Emergency" fill in Block 27).
James Mather /s/ 05/29/03	Initial ECS Baseline Doc.	Routine

16. Documentation/Drawings Impacted *(Review and submit checklist):*	17. Schedule Impact:	18. CI(s) Affected:

19. Release Affected by this Change: 6A	20. Date due to Customer:	21. Estimated Cost: None - Under 100K

22. Source Reference: ☒NCR (attach) ☐Action Item ☐Tech Ref. ☐GSFC ☐Other:
ECSed37545

23. Problem: (use additional Sheets if necessary)
Firewall at GDAAC has been reporting random interrupt error (INTRPPC_ERR) for 10/100Mbit NIC used for M&O LAN connectivity. IBM is aware of this error and has made patch available (devices.pci.23100020.rte.4.3.3.80). GDAAC has requested assistance from Landover security engineers to test IBM patch followed by formal delivery. This error has been seen several times on the SMC and LPDAAC firewall.

24. Proposed Solution: (use additional sheets if necessary)
The IBM fielset/driver devices.pci.23100020.rte.4.3.3.80 was installed and has run without any problems since 05-20-03 on the VATC firewall. Release drive as a TE for installation on all firewalls, PVC, SMC, and all DAACS.

25. Alternate Solution: (use additional sheets if necessary)
None.

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
IBM has stated that the problem "should" not crash the system. But GDAAC is seeing this error message every day. It is filling up IBM error logs very fast. This error was also reported at SMC and LPDAAC.

27. Justification for Emergency (If Block 15 is "Emergency"):

28. Site(s) Affected: ☐EDF ☒PVC ☐VATC ☒EDC   ☒ GSFC ☒LaRC ☒NSIDC ☒SMC ☐AK ☐JPL
☐EOC ☐ IDG Test Cell ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date):	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS

33. M&O CCB Chair (Sign/Date): G. G. Gavigan, Jr. /s/ 6/3/03	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS

34. ECS CCB Chair (Sign/Date): Evelyn N. Nakamura /s/ 6/3/03	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

ADDITIONAL SHEET

CCR #: 03-0388 **Rev:** — **Originator:** Henry Baez

Telephone: 301-925-1025 **Office:** 2101D

Title of Change: Release latest IBM OS 10/100Mbit PCI drivers for PVC, SMC, and DAACs firewalls.

1. Download from the firewall the file directly from AIX. Use anonymous as user and your email address for the password. You need to get the named 'devices.pci.23100020.rte.4.3.3.80' file set and loaded it to correct error messages in the 'errpt' log.
Type the following command:
   #mkdir /tmp/pcifix <Enter>
Now ftp to IBM and get the files with the following commands:
   #ftp techsupport.services.ibm.com <Enter>
   #ftp>cd /aix/fixes/v4/devices <Enter>
   #ftp>get devices.pci.23100020.rte.4.3.3.80.bff /tmp/pcifix/devices.pci.23100020.rte.4.3.3.80.bff <Enter>
Notice the ending of 'bff' must have it in order to get the file. Cannot do 'ls' because there are too many files and you will get an error message.
Now log out of IBM ftp server:
   #ftp> bye <Enter>
2. From another windows make sure you have tmp/pcifix/devices.pci.23100020.rte.4.3.3.80.bff. Do AIX sum command:
   #sum devices.pci.23100020.rte.4.3.3.80.bff <Enter>
The results should be:
    62196   119 devices.pci.23100020.rte.4.3.3.80.bff
3. Now install devices.pci.23100020.rte.4.3.3.80 file set. Change directory to /tmp/pcifix.
   #cd /tmp/pcifix <Enter>
Then type the following command:
   #inutoc . <Enter>
This will build the '.toc' file the installation program needs. Start SMIT.
   #smit <Enter>
The first menu heading will read:
   Software Installation and Maintenance
Click on the box labeled as follows:
   Install and UpdateSoftware
Click on the box labeled as follows:
   Install and Update from LATEST Available Software
A pop menu will display the message/question "INPUT device / directory". Write in '/tmp/pcifix' where the files are located. Click on 'OK' button. Next menu will pop up. Mark with yes verify and save old files options. Click on 'OK' button to continue. A new dialog box will display 'Are You Sure', click on 'OK' button to start installing the file sets. Estimated installation time is less then 2 minutes. Below is actual message you will see on screen for a successful installation:

   0503-409 installp: bosboot verification starting...
   installp: bosboot verification completed.
   0503-408 installp: bosboot process starting...
   bosboot: Boot image is 7349 512 byte blocks.
   0503-292 This update will not fully take effect until after a system reboot.
   installp: bosboot process completed.

SMIT writes into a log file called smit.log located in root directory. The size of the boot image might vary due to number of interfaces and other differences. After the file is installed you must re-boot the firewall with the command:
#shutdown -r now <Enter>